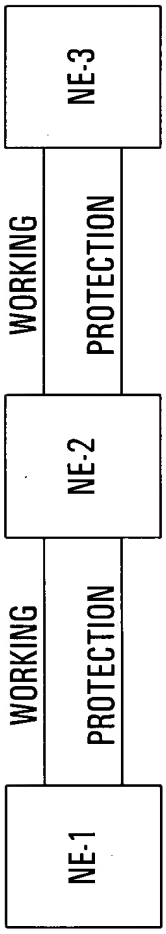
NE-1
WORKING
PROTECTION
NE-2
WORKING
PROTECTION
NE-3

FIG. 1A

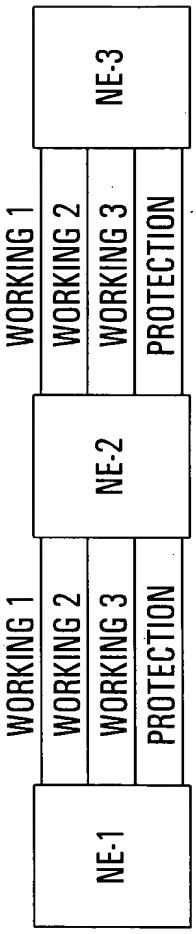
NE-1
WORKING 1
WORKING 2
WORKING 3
PROTECTION
NE-2
WORKING 1
WORKING 2
WORKING 3
PROTECTION
NE-3

FIG. 1B

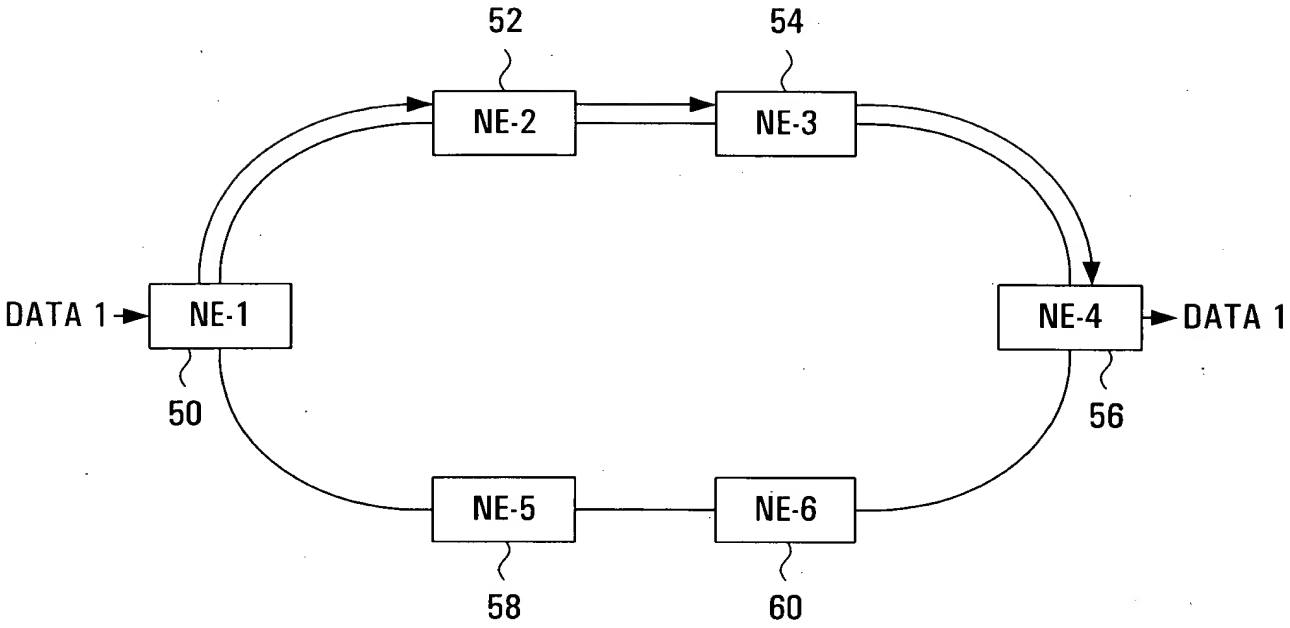

FIG. 2A

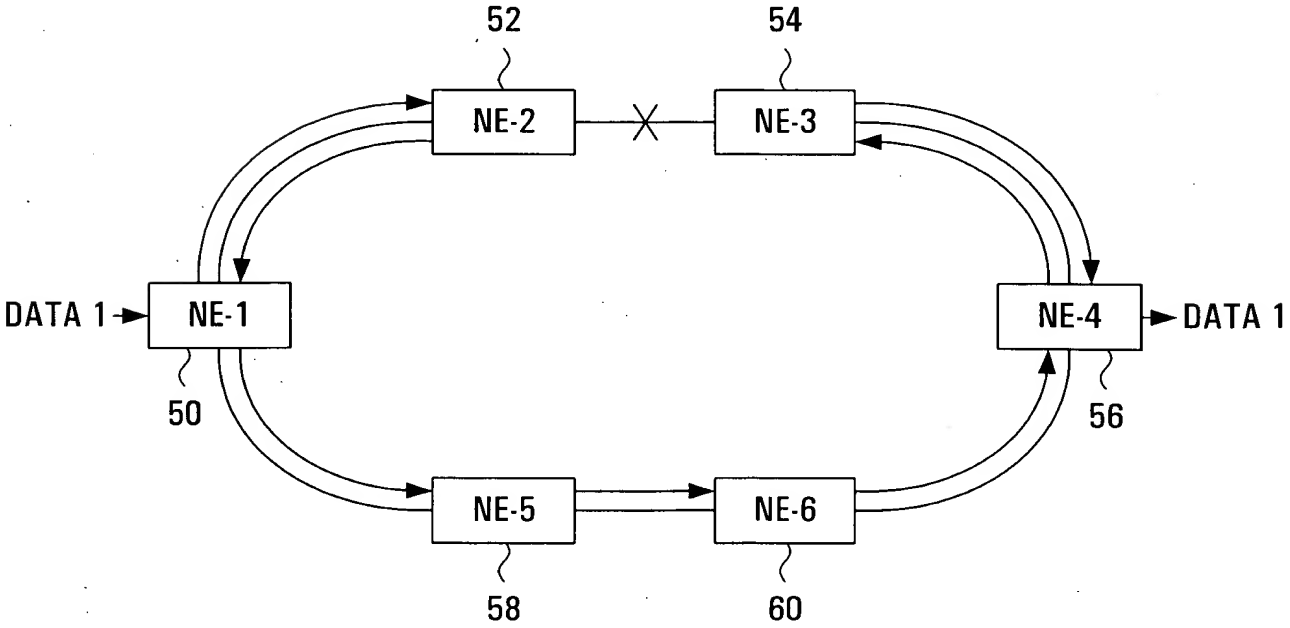

FIG. 2B

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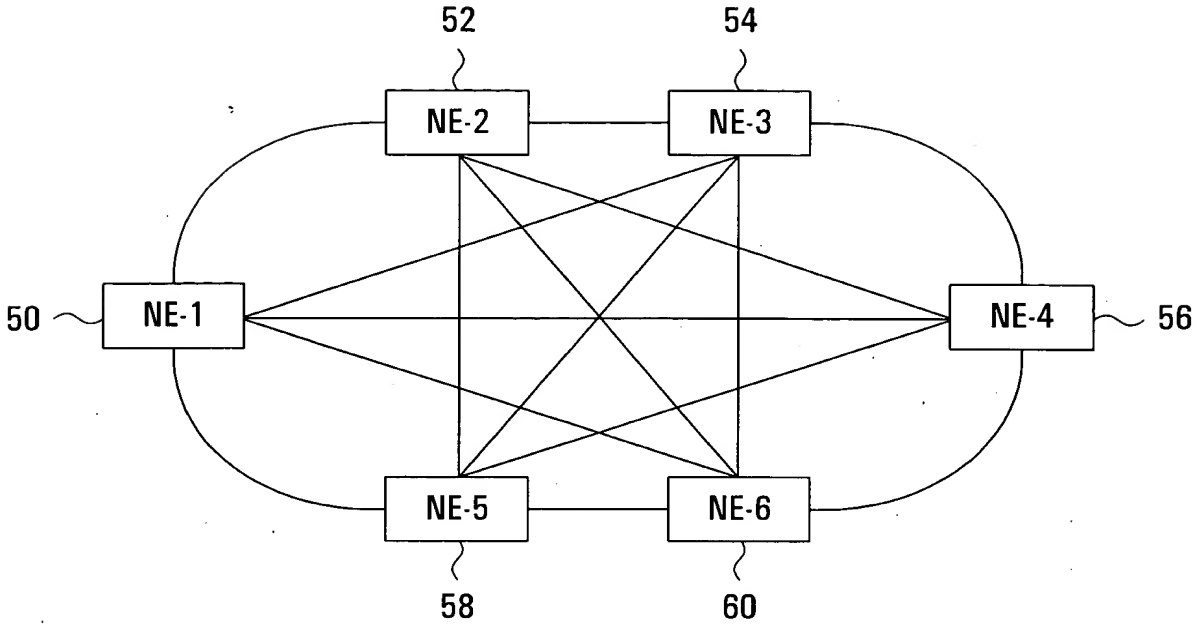


FIG. 3

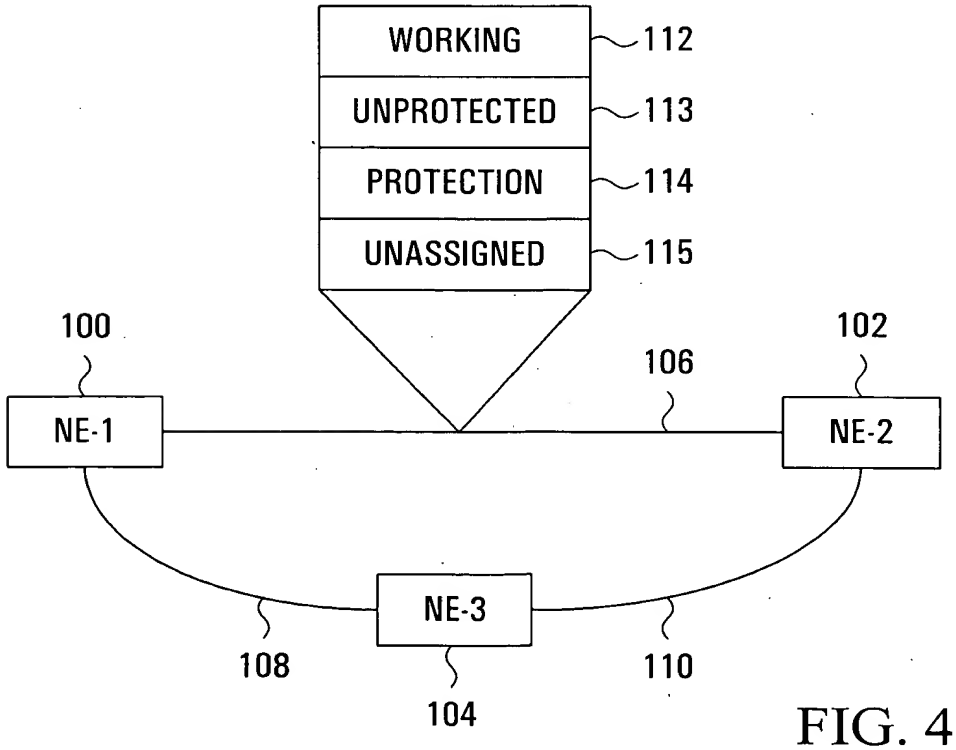


FIG. 4

09620248 - 07/20/00

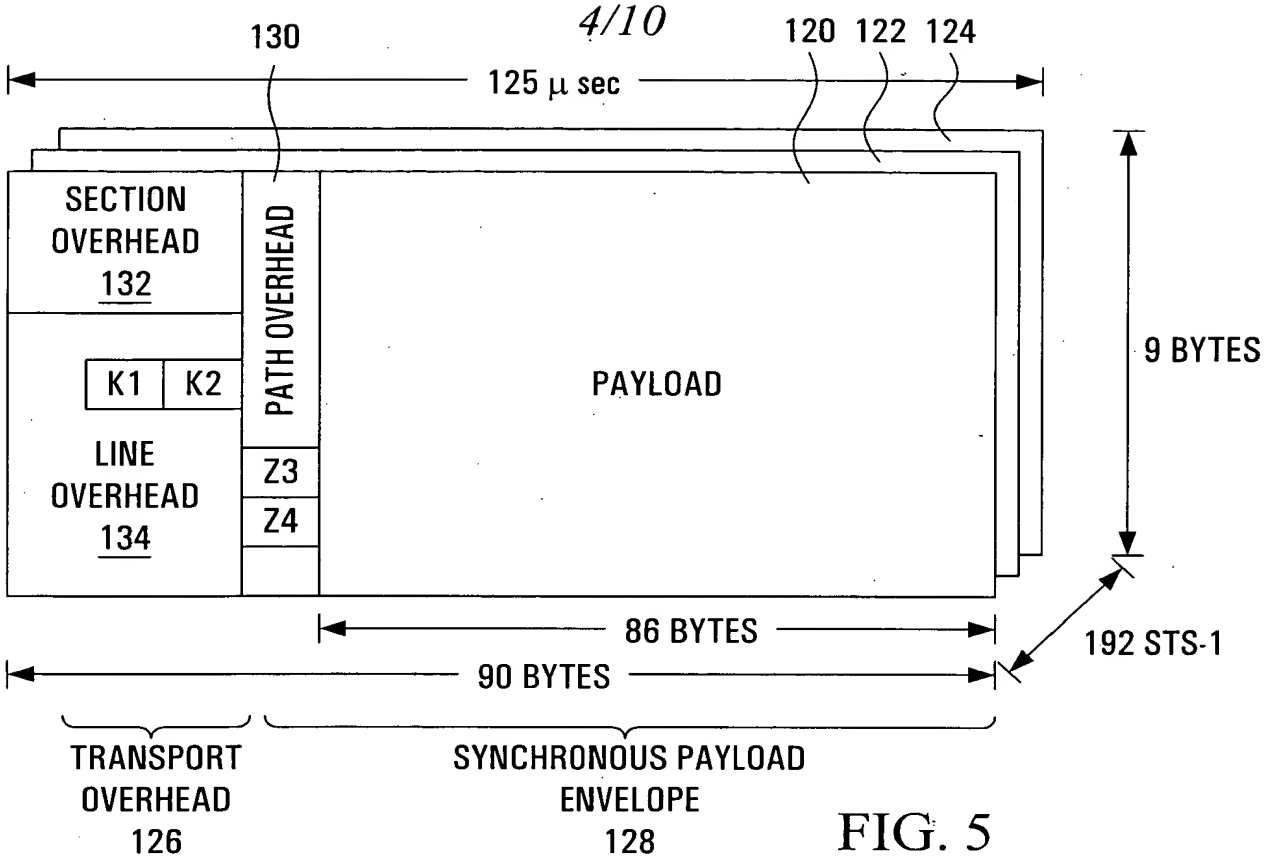


FIG. 5

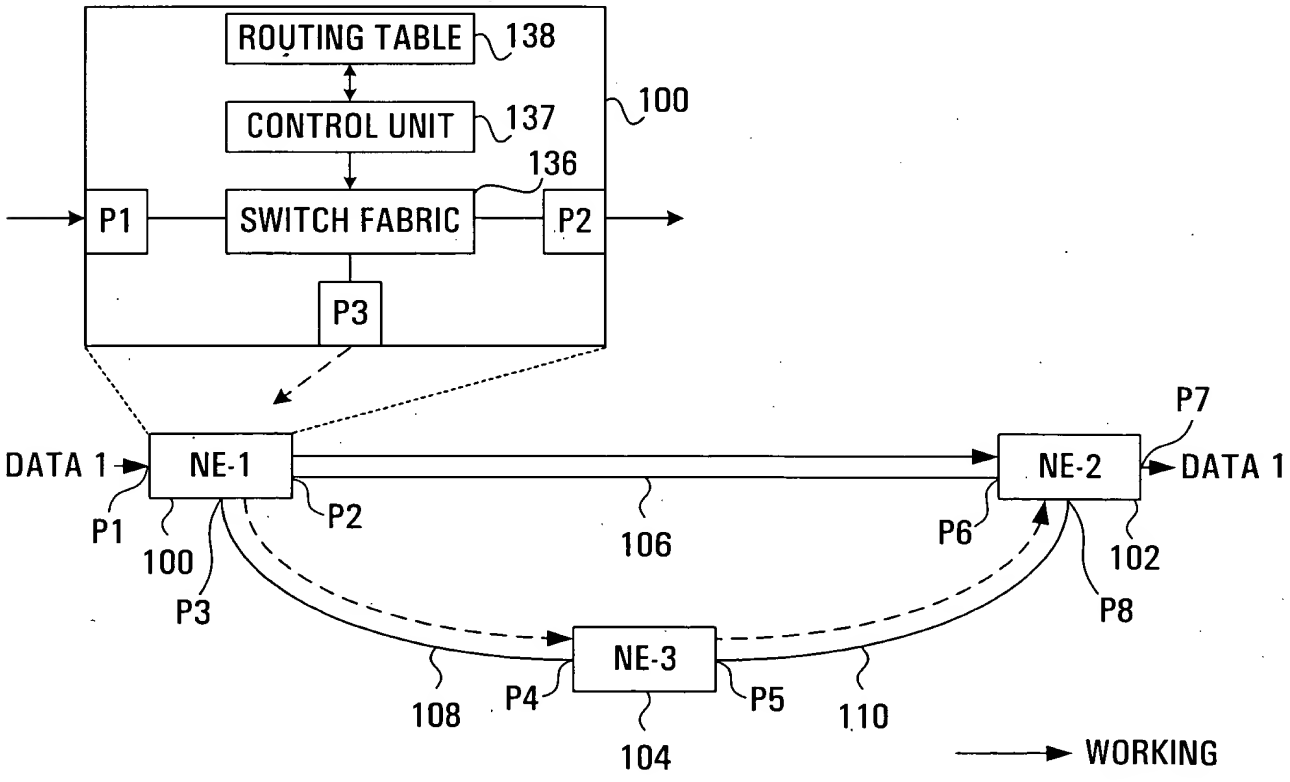


FIG. 6

09/2002 - 09/2003

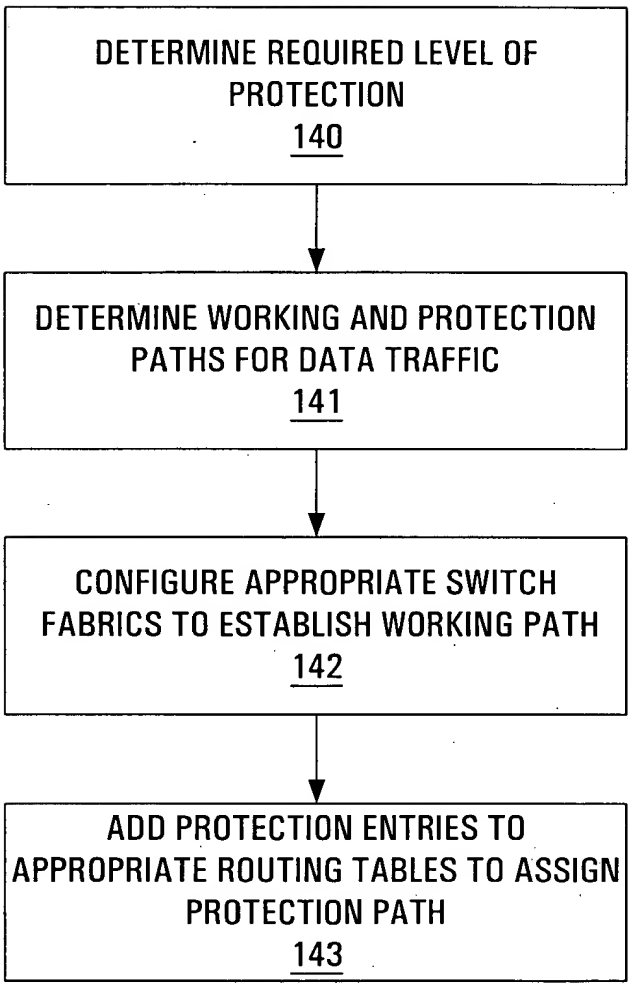


FIG. 7A

09620248 - 070000

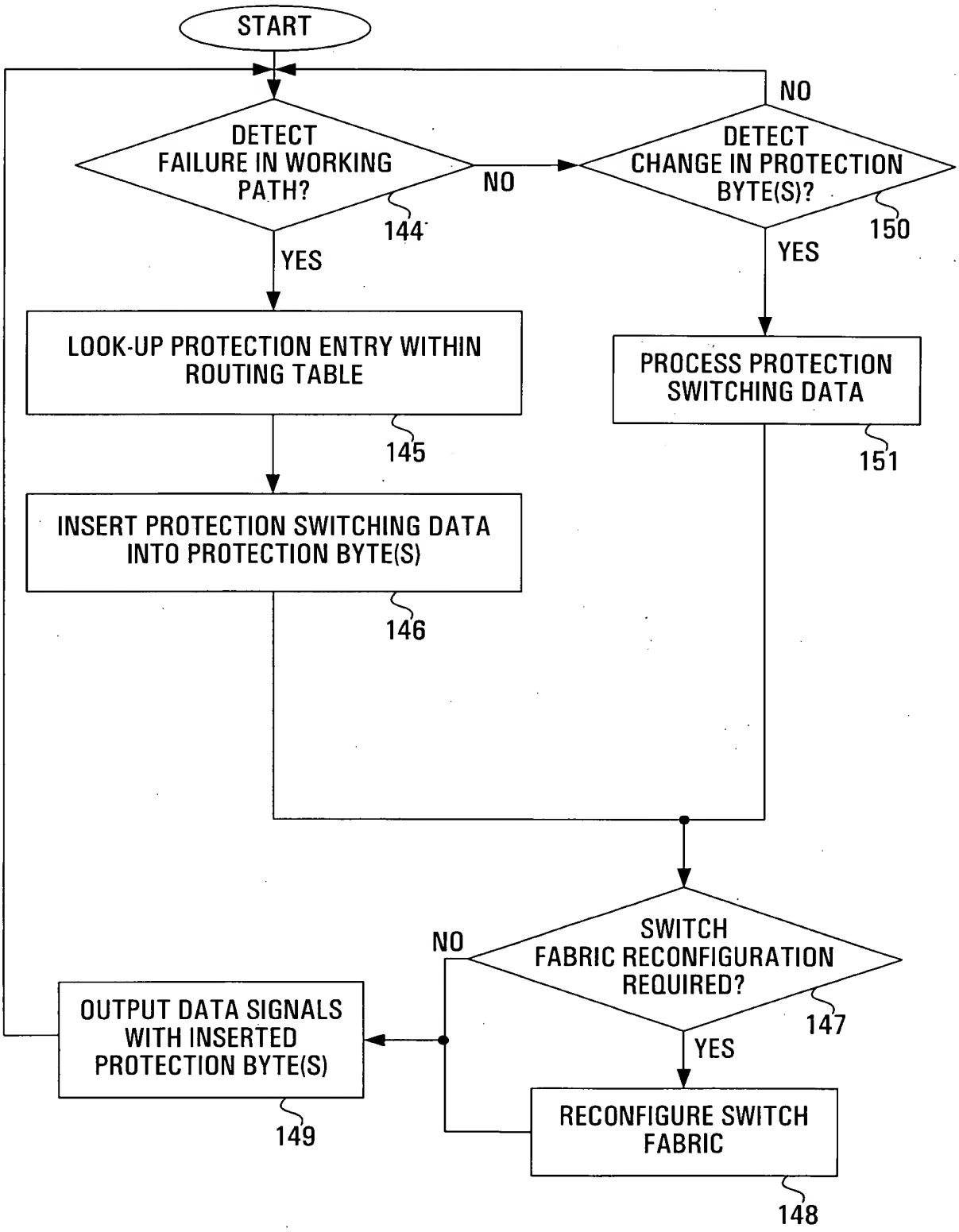

START
DETECT FAILURE IN WORKING PATH?
144
NO
YES
DETECT CHANGE IN PROTECTION BYTE(S)?
150
NO
YES
LOOK-UP PROTECTION ENTRY WITHIN ROUTING TABLE
145
PROCESS PROTECTION SWITCHING DATA
151
INSERT PROTECTION SWITCHING DATA INTO PROTECTION BYTE(S)
146
SWITCH FABRIC RECONFIGURATION REQUIRED?
147
NO
YES
OUTPUT DATA SIGNALS WITH INSERTED PROTECTION BYTE(S)
149
RECONFIGURE SWITCH FABRIC
148

FIG. 7B

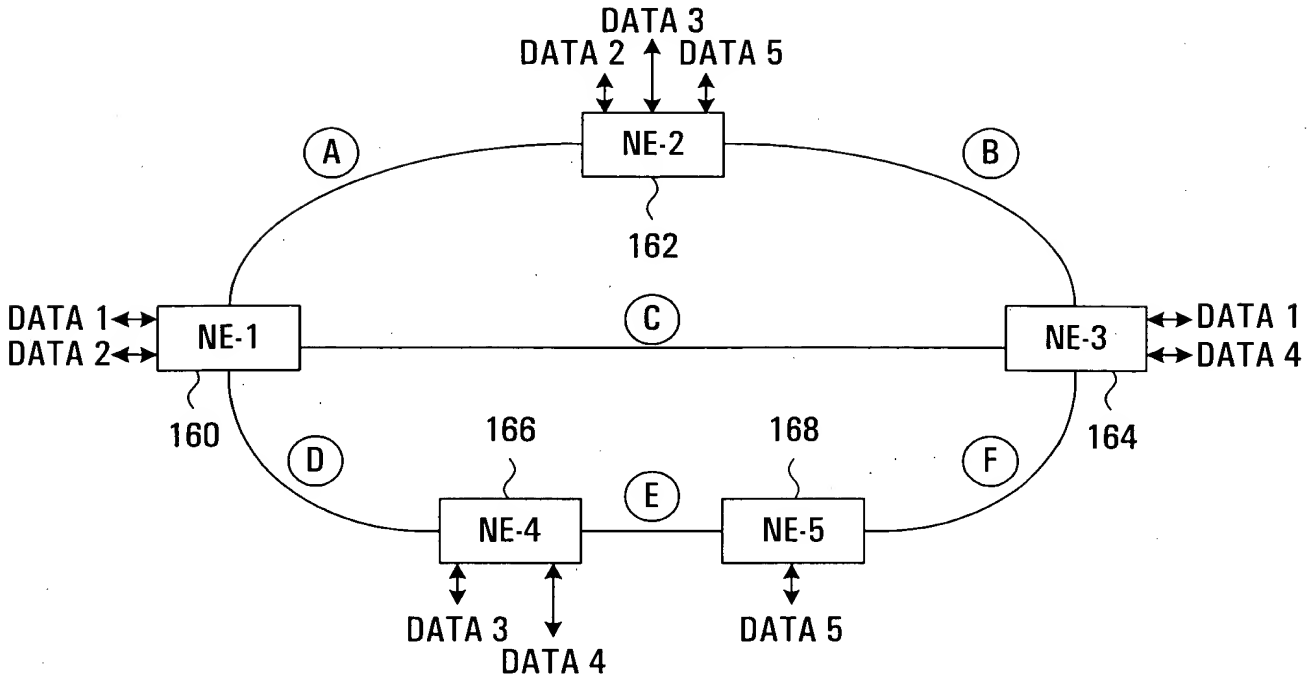


FIG. 8A

A	B	C	D	E	F
DATA 2 WORKING	DATA 5 UNPROTECTED	DATA 1 WORKING	DATA 3 UNPROTECTED	DATA 4 WORKING	DATA 4 WORKING
DATA 3 UNPROTECTED	PROTECTION	PROTECTION	PROTECTION	UNASSIGNED	DATA 5 UNPROTECTED
PROTECTION	UNASSIGNED	UNASSIGNED	UNASSIGNED		UNASSIGNED
UNASSIGNED					

FIG. 8B

09502456 - 09/2000

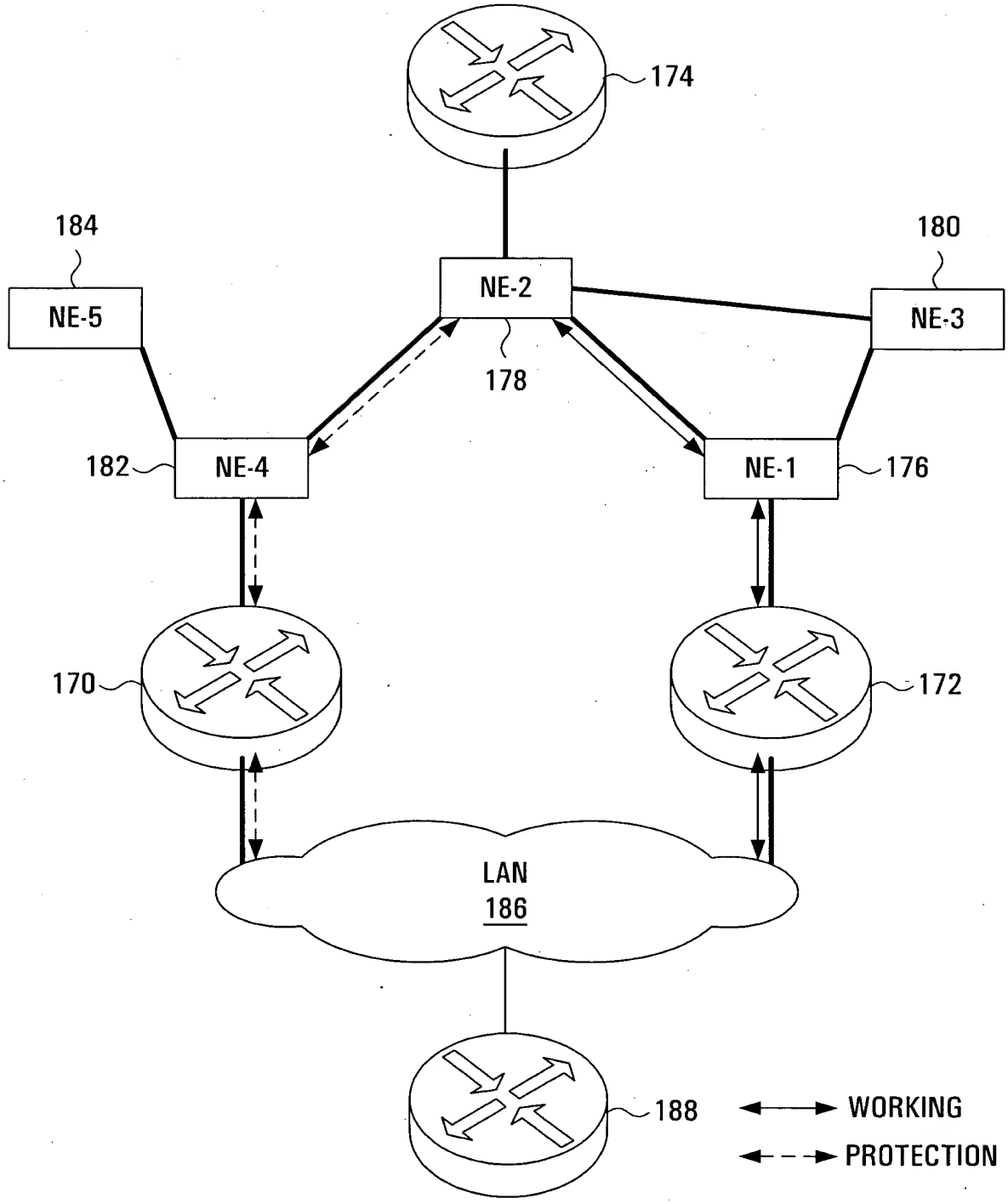

174
184
180
NE-5
NE-2
NE-3
178
182
NE-4
NE-1
176
170
172
LAN
186
188
WORKING
PROTECTION

FIG. 9

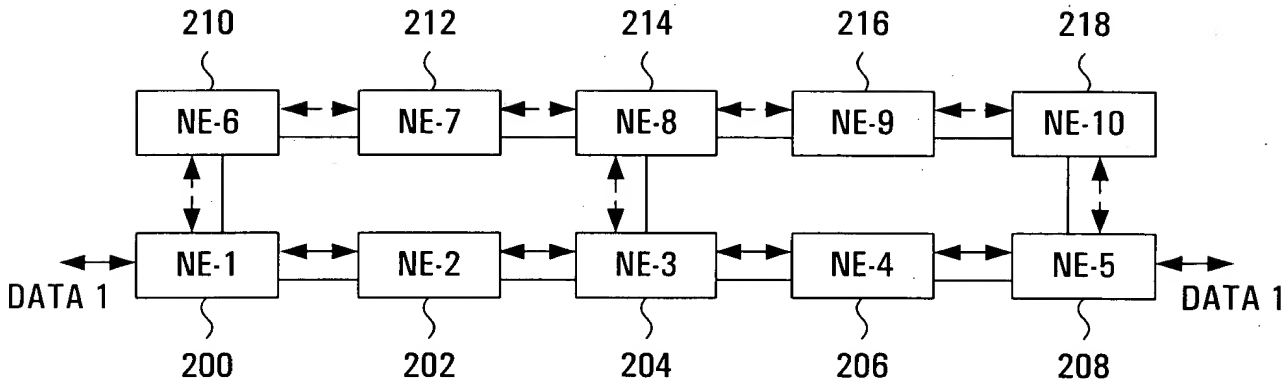


FIG. 10A

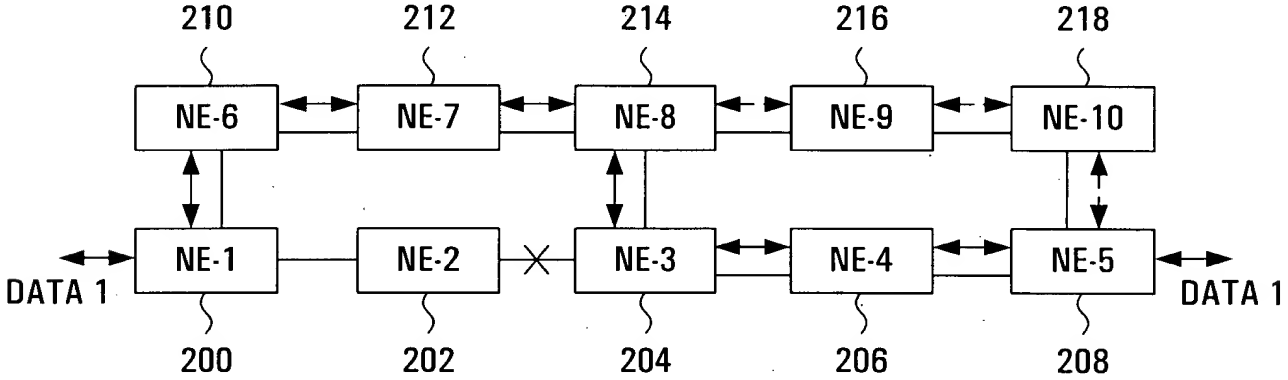


FIG. 10B

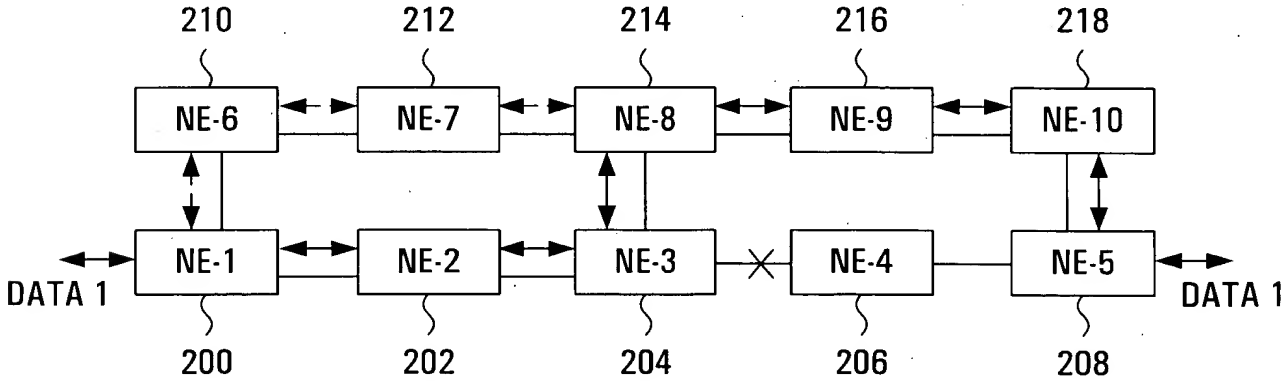
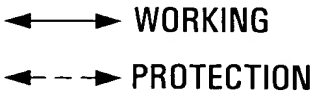


FIG. 10C



09620248 - 070200

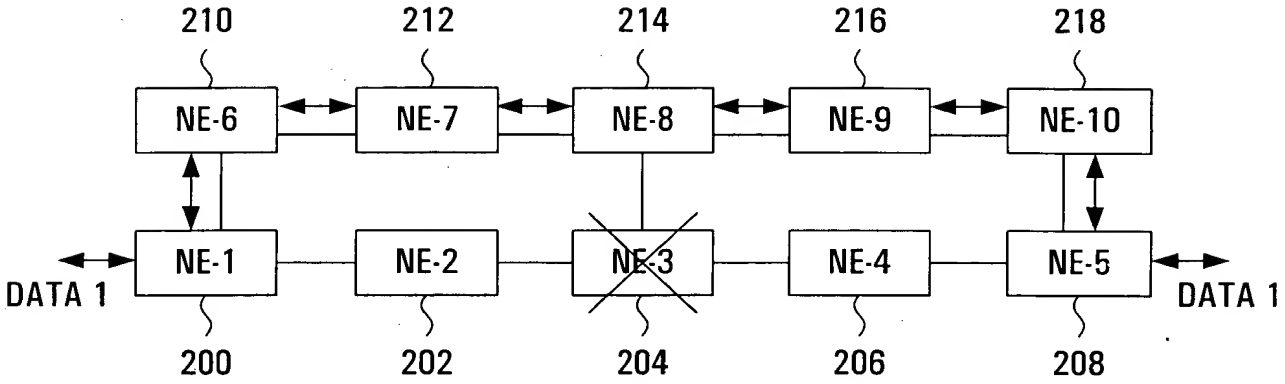


FIG. 10D

09/02/2005 - 09:20:00